Love of life begins with "Rcom"

World's Best Selling Incubator

KINGSURO 20

REV. 3.0

DIGITAL EGG INCUBATOR

USER'S MANUAL

KINGSURO MAX 20

Rcom

How to Use Rcom KING SURO MAX 20

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Introduction

Before use

Incubation

Function Settings

Management

Product Information

Mark Explanation

Caution :

Caution mark against a fault that can cause damage, trouble, or failure of incubation.

- Prohibited
- It is necessary to keep.
- Do not disassemble.
- Remove the power cord from outlet.
- Do not touch.
- Ground Connection for preventing electric shock.

Tip : References or useful suggestions in using KING SURO 20

CAUTION Warning of actions which may be dangerous or cause damage to the incubator.

Rcom King SURO20 ?

Thanks for using Rcom King SURO20 incubator.
SURO is a name of ancient King in GimHae area who born from egg, and he is revived as Rcom Suro incubator based on experienced incubation technique and best quality management. King SURO incubator is designed to easy and simple use as a customer oriented product, but remember that user's incubation knowledge and proper operation is very important for best incubation result.
Therefore, be sure to read this user's manual carefully before you use.
Rcom King SURO offers optimum incubation conditions, but users need to observe and manage all incubation conditions such as species of eggs, temperature or humidity for each incubation period, and incubation circumstance.
Also, adjustment by users is available.

Features

[Main Features]

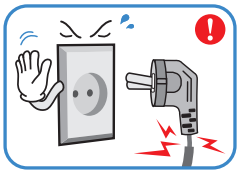
* Luxury design with streamlined egg shaped concept
* Automatic Temp. setting and control
* Automatic Humidity setting and control
* Artificial intelligence electronic control device to automatically adjust the cycle of incubator according to the ambient conditions
* Automatic egg turning function with Auto Egg Van (Cradle)
* Convenient humidifier with Automatic Pumping System (A.P.S)
* Clear and transparent large view-window
* Minimizing the parasitic bacteria by not using any interior material and using revolutionary hygienic duplicated insulation structure (bottom-egg tray)
* Variable air control lever to control air amount inside the incubator
* Applying RCOM's optimum air flow technology to avoid the fan's air from directly touching egg
* 24 egg capacity in the case of chicken egg size
* Enhanced reliability by applicating Swiss's Sensirion's 3rd generation temperature & humidity sensor

[Easy Features]

* ℃ or ℉ convertible
* Alarm and indicator function for abnormal high or low temperature by drastic and unusual outer temperature change
* Incubation data memory function and power outage notification function in case of power outage
* Closed structure to avoid waterdrops (condensation) on the view window from leaking out of incubator
* Rotating heater support which conveniently controls the tension of the heater
* Application of Water Nipple to supply water easily for humidification
* Automatic humidification function for minimum 2 minutes (Press + button for 10 sec.)
* Automatic Humidification Pumping System, and precise Speed Regulator VR to control the amount of pumping
* 4 Air Vent Holes for inflow of fresh air from outside to inside by affecting the heat insulation to the minimum
* Not required to have a balance weight with the optimized incubator design considering the centroid of incubator's top and bottom when eggs are placed
* Different kinds of egg can be placed on egg tray, and Egg divider made of ABS material, which has perfect elasticity.
* The bottom of the egg tray is made with embossed skid-resistance floor to prevent young birds from deformity in their leg
* The Automatic Pumping System (APS) for accurate humidification, as a pump of silicone tube, is structured to make tube changed with easy and durable by installing mini roller on the four areas with friction.

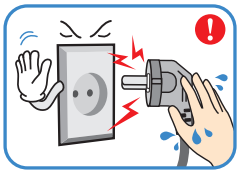
Electrical hazards

CAUTION Be careful the details below when you use.



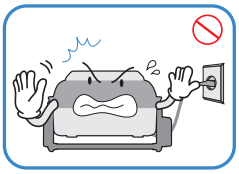
Do not use a damaged power cord or loose outlet.

Risk of electric shock or fire.



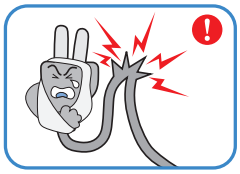
Do not pull the cord when taking out the power cord, and keep wet hands away from connecting plug.

Risk of electric shock or fire.



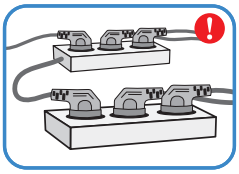
Never pull the plug out of the outlet during the incubation period.

Incubation will be interrupted.



Do not twist or crush electric cord.

Risk of electric shock or fire.



Do not insert multiple connecting plugs in an outlet.

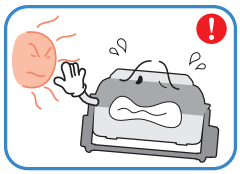
Risk of fire or electrical overload.

Setting Cautions

CAUTION Be careful the details below when you use.

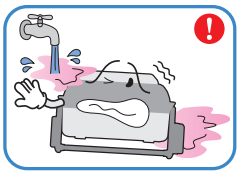
Do not install in dusty or dirty environment.

Risk of damage or fire within the incubator.



Do not install under the direct sunlight.

Risk of fire or interference with the incubation process.

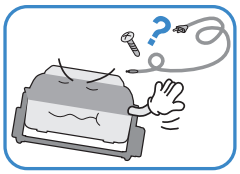


Do not install in moist or humid environment.

Risk of fire or electric shock.

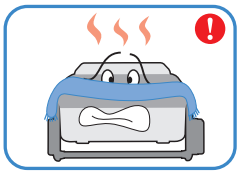
Do not install in excessively cold or hot conditions, cigarette smoke, etc.

Risk of interference with the incubation process.



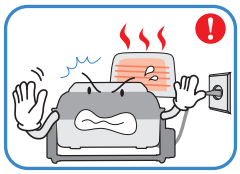
Do not use any other non-standard parts except those provided.

Risk of damage or hatching failure.



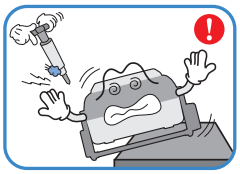
Do not cover the ventilating opening.

Inner temperature can rise, interrupting incubation.



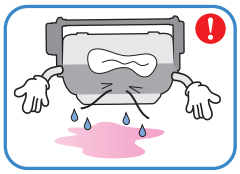
Install away from heat sources.

Risk of damage to the incubator case and interference with the incubation process.



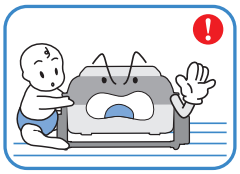
Ensure that the incubator is installed on a stable surface away from edges.

Risk of damage to incubator and eggs and user from accidental knocks or drops.



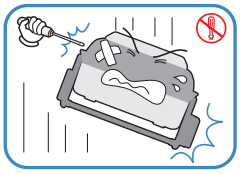
Do not turn the incubator upside down.

Water will pour out of the incubator, and view window can be dropped or damaged.



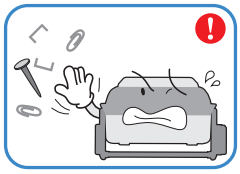
Children should be supervised to ensure that they do not play with the appliance.

Risk of knocking the incubator or accidental interference with the controls.



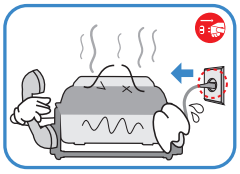
Do not disassemble or modify the incubator in any way.

Risk if electric shock or fire.



Please ensure that no small objects get into the holes on the incubator.

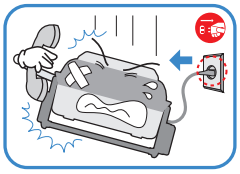
Risk of electric shock or fire.



If the incubator sounds strange or emits smoke contact your service center.

Risk of electric shock or fire.

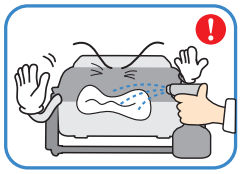
Clean the incubator thoroughly before storing.



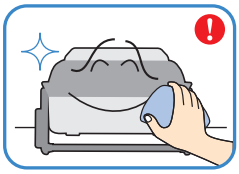
If the incubator requires repair disconnect from the power supply and please contact to your service center.

Cleaning Cautions

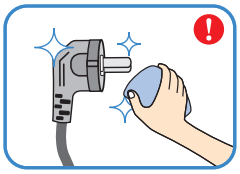
CAUTION Be sure to disconnect the electric cord from the outlet before cleaning.



Do not spray cleanser directly on the incubator surface.

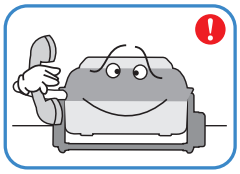


Clean the incubator by a soft cloth with a neutral detergent.



Brush away dust on the plug with a dry cloth.

Do not use chemicals like wax, benzene, alcohol, thinner, aromatic, or lubricant, etc.

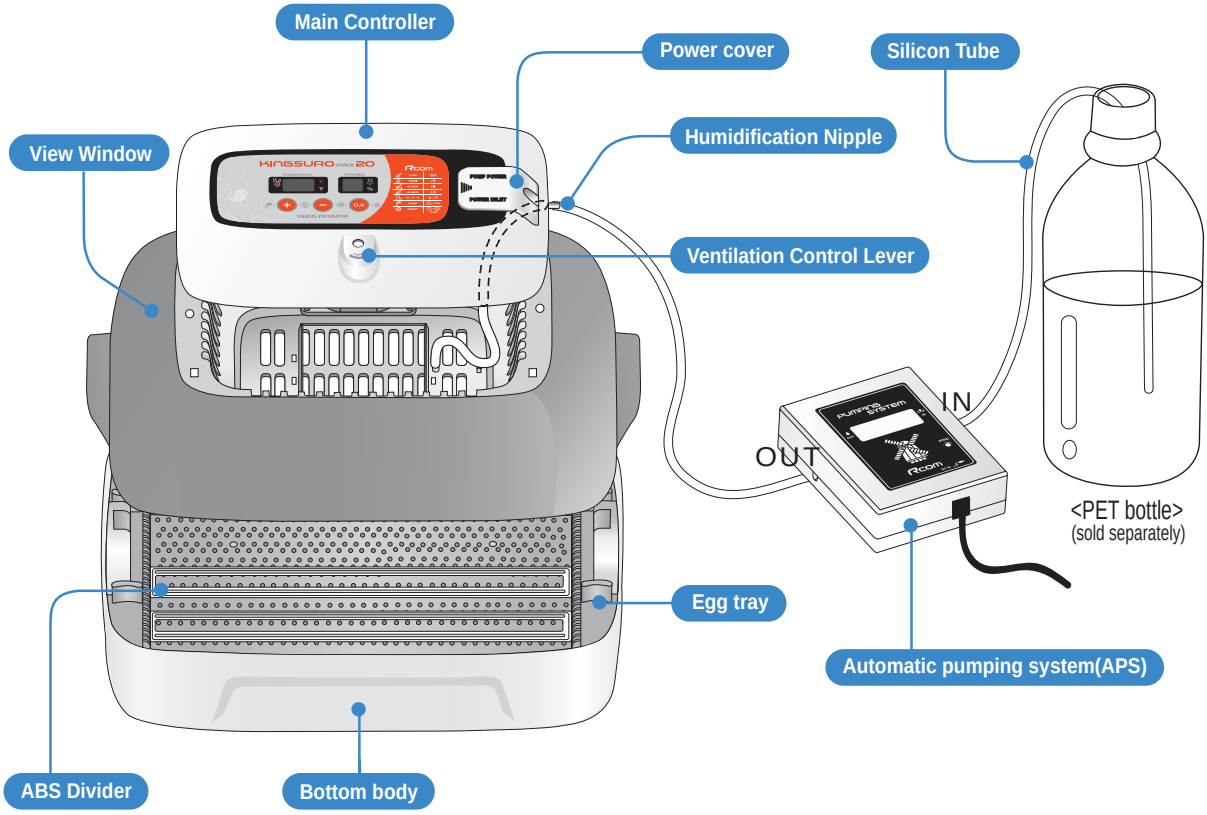


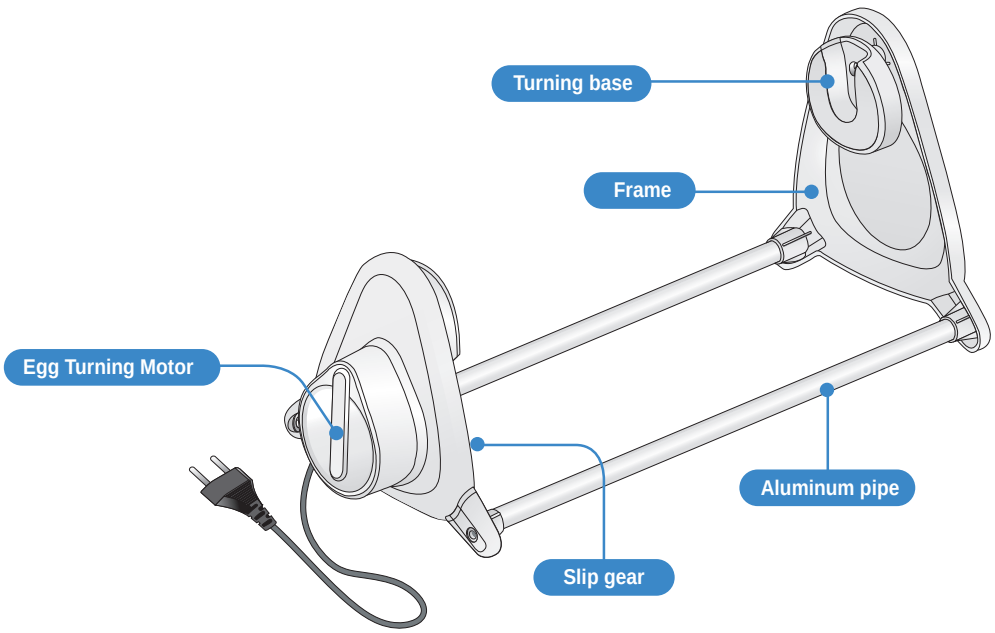
For special cleaning of inner part per year, contact to the service center.

If you don't clean the inside of incubator for a long time, dust can cause some trouble or a fire.

※ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Identification of Parts





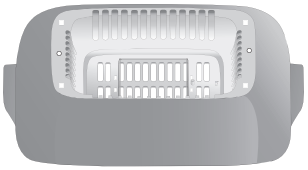
Basic Components

Product serial No. is indicated inside of main controller.
Be careful not to remove the serial No. ex)RCM0950278

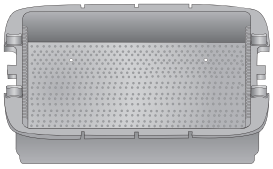
(Power Cap)

Rated voltage and product serial No. are marked inside of power cover.
Be sure to check this before connecting power.

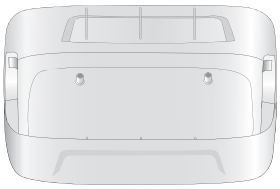
Main controller



View window



Egg Tray



Bottom body

(Silicon Tube)
12.5cm (diameter : 2.6 * 3.5)

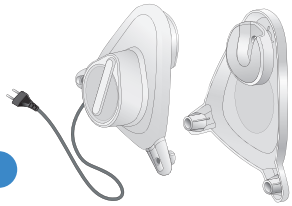
Nipple (1pcs.)

(1pcs.)

Power Cover fixing bolt

(2pcs.)

Main Controller Assembly Bolts

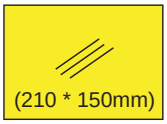


Egg Van(Cradle)

ABS Divider

Power Cord

Manual

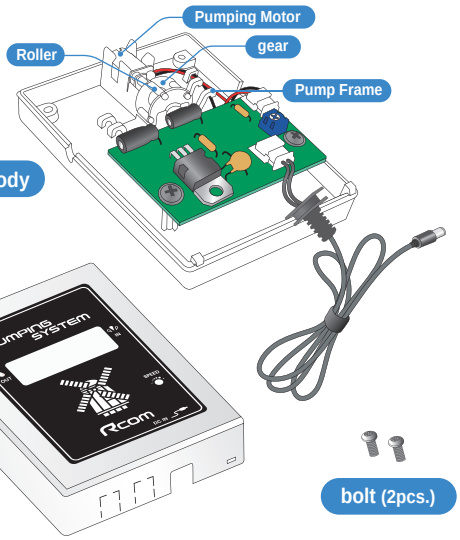


Expendables

Humidity Pad

Hatching Pad

APS Components



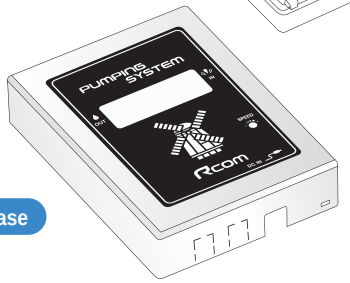
Pump Main Body

3.5cm (diameter : 2.6 * 3.5)

Silicon Tube and Nipple (2pcs.)

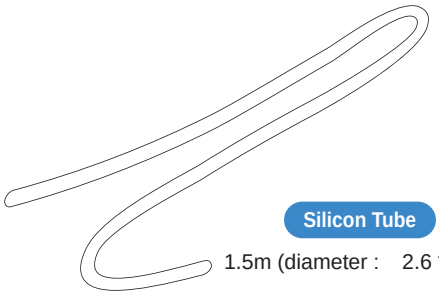
(Humidity Pad Fixing Use)

Humi Pad Clip (2pcs.)



Pump Case

bolt (2pcs.)



Silicon Tube

1.5m (diameter : 2.6 * 3.5)

Rcom King SURO 20

[Name & Function of Operation Parts]

① Heater Operation Lamp
- Light on when working

② Temp. Display
- Current Temperature Display

③ Humidity Display
- Current Humidity Display

④ Pumping System Operation Lamp
- Light on when working

⑤ Power Failure Alarm Function
- Light on when power failure (Cancel Button : OK)

⑥ Up Button
- Setting Temp. & Humidity UP / Calibrated Temp. & humidity UP

⑦ Down Button
- Setting Temp. & Humidity DOWN / Calibrated Temp. & humidity DOWN

⑧ Menu Selecting Button
- Setting Value check

+ −	Setting Mode: Press two buttons at the same time to go to Setting Mode.
O.K	Select Menu / Quick Movement / Cancellation / Setting value check during incubation
+	Value + / APS is forced to operate if press 5sec. / APS is forced to operate for 2min. if press 10sec.
−	Value - / Factory Initialization

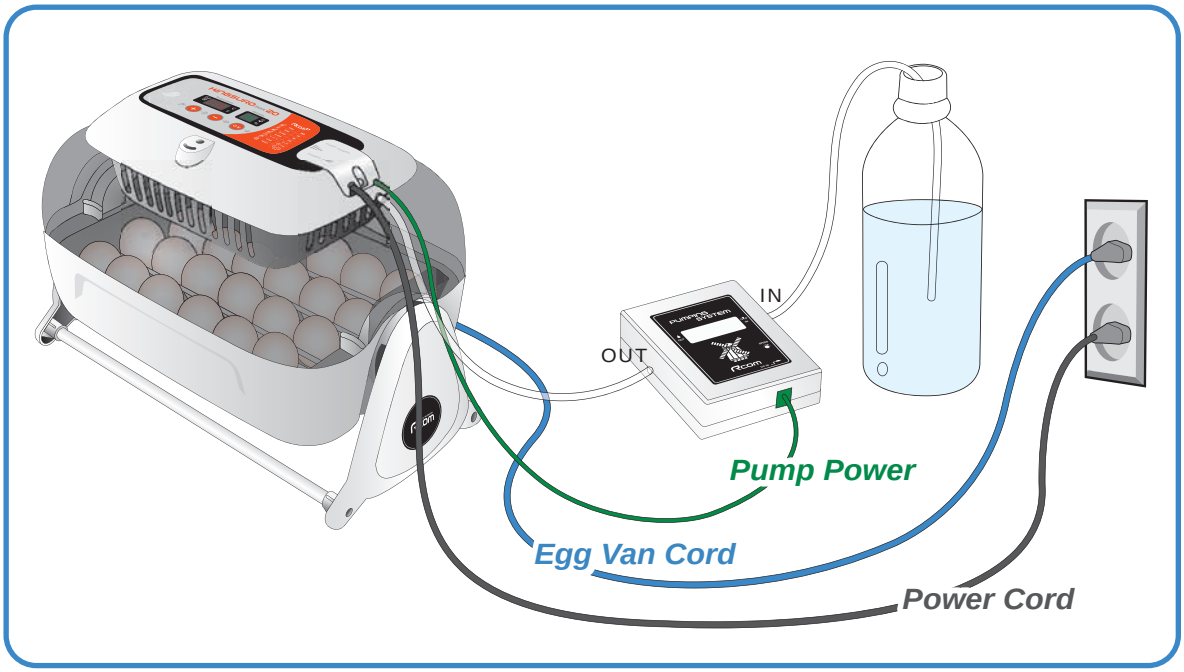
Function Key

Function	Temp.	Humidity	Abnormal High Temp. Alarm	Abnormal Low Temp. Alarm	Centigrade / Fahrenheit
Dispaly	tEP →	rH →	HI →	LO →	°C / °F
Default Setting	37.5°C	45%	2°C	- 3°C	°C

What's an Incubation Room?

The Incubation Room is a confined space for setting and operating an incubator.
Because the incubation room environment has a considerable effect on hatch rate, it's recommended to control the environment for setting up an incubator; there should be little noise and vibration around and temperature ranging 28℃(82.4˚F) with small variation in temperature.
Especially, if there are frequent occasions when the temperature drops suddenly at night, compared with daytime, be sure to check from time to time and pay attention so that the incubator is not directly exposed to sunlight during daytime.

※ When the temperature of incubation room is lower than, recomended setting temperature there could be water-drop in side of incubation room or water leak on the floor. because of dew condensation.



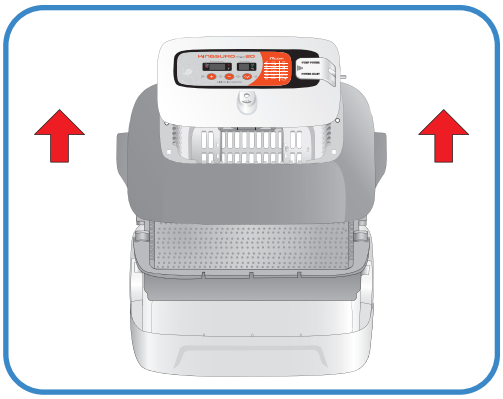
How to Assemble

[How to Assemble Main Body]

1

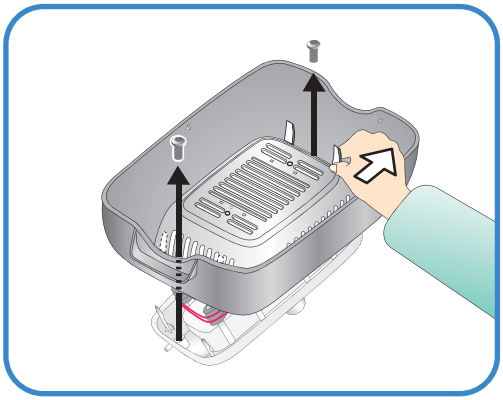
Please remove all packing from the incubator and parts.
Then, check each part is all present and undamaged.

※ Retain the carton and packing materials to enable the unit to be repacked.



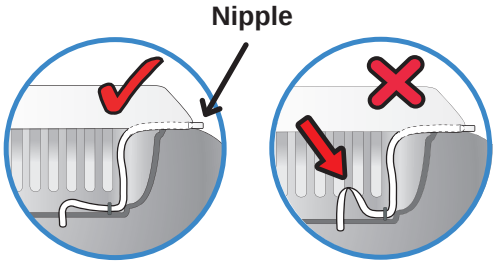
2

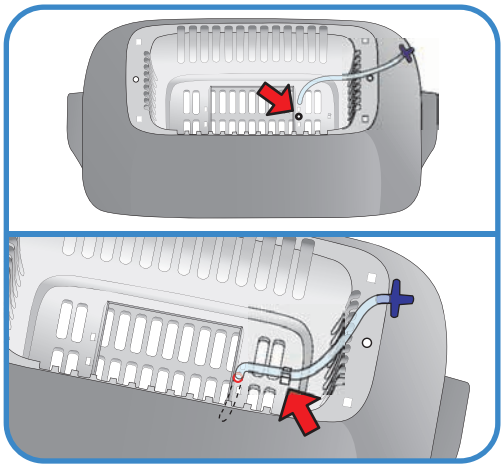
Loose two bolts connecting main controller and view window. After that, disassemble main controller from view window by pulling 4 hooks on main controller.



3

Fix silicone tube which is assembled with nipple into the hole.



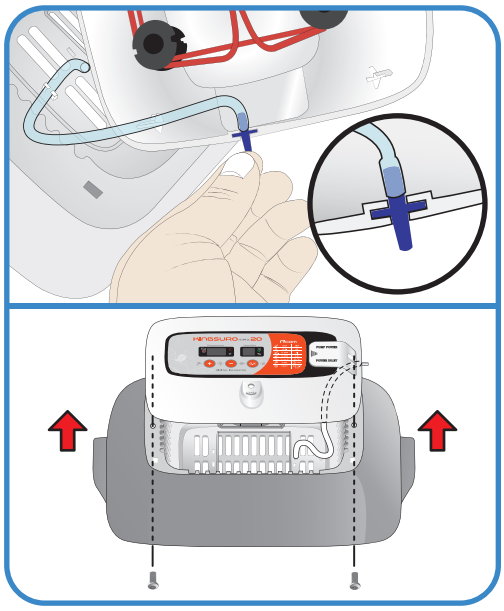


⚠ Be careful to ensure the silicone tube is not folded.

4

Insert the nipple which is connected with view window to the hole of main controller, and assemble view window and main controller with two bolts.

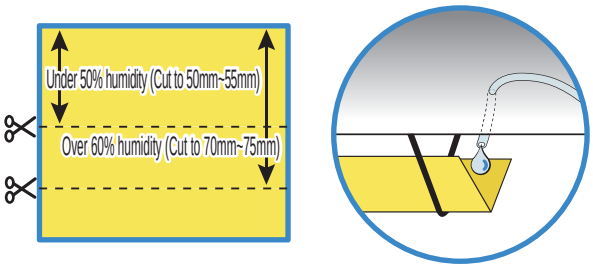
⚠ Do not tighten the bolts too much.

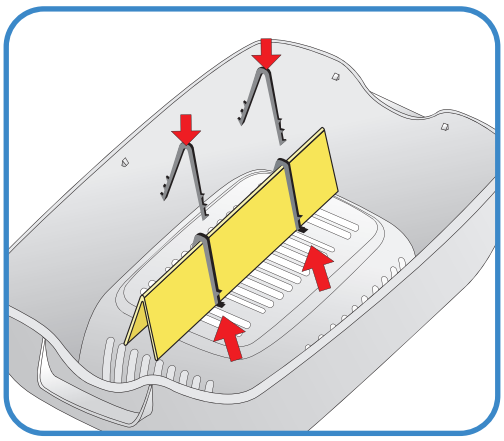


5

Cut Humidity pad to proper size,
and then fix on the view window with 2 pins included.

⚠ Evaporating ability is different from pad size.





※ You can use Humidity pad for about 4 ~6 months, but it can be different from water quality.
(Distilled water is good.)

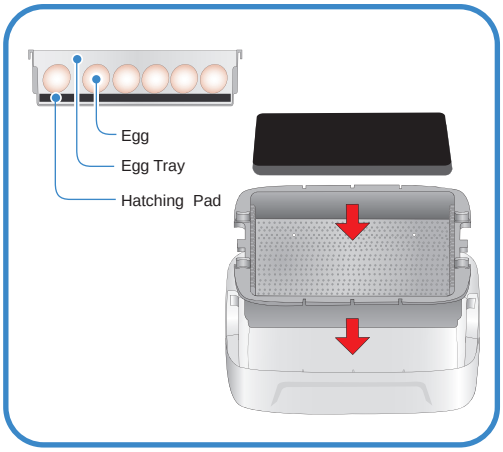
※ Humidity pad can be purchased separately.

6

Assemble bottom body, Tray, and Tray hatching pad.

⚠ Ensure hatching pad is placed in egg tray.

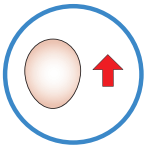
※ After hatching finished, be sure to wash and dry tray mat completely for next use.



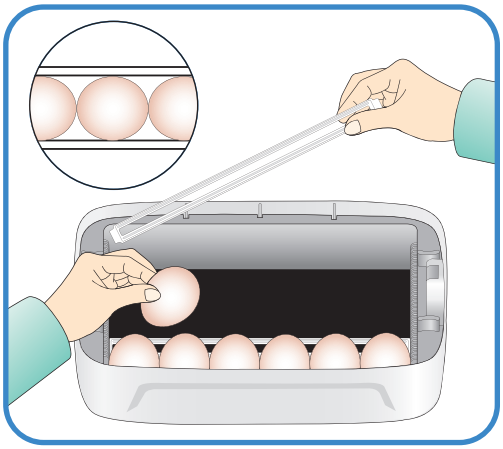
7

Place eggs by adjusting tray divider according to egg size.

⚠ Control the space of eggs and divider optimally so the eggs are not interrupted for incubation.



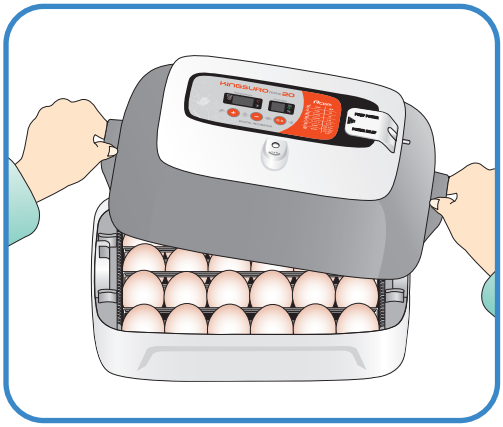
Tip It is recommended to place eggs with sharp end side down.



8

Place eggs and cover view window.

⚠ If view window is not closed completely, temp. fails to go up.

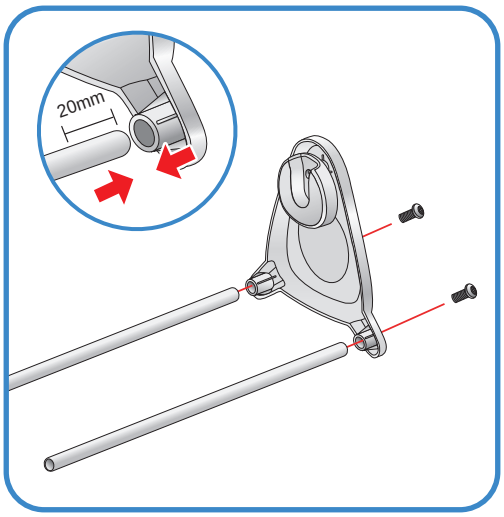


How to Assemble the EGG VAN

1

Insert aluminum pipe to the frame exactly.
Place the EGG VAN on the flat surface, and tighten the bolts.
Incubator can drop in case of wrong assembling.

⚠ Do not turn the incubator manually when the incubator is on the EGG VAN.
(It can cause egg turning device failure.)

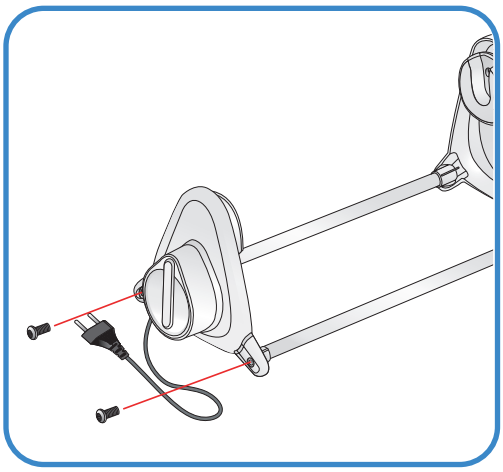


2

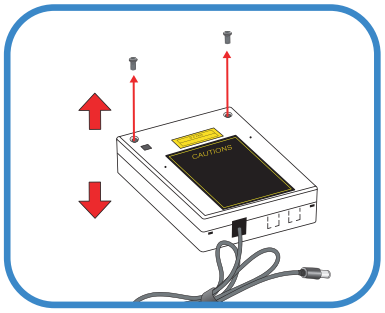
Assemble opposite side with same way.

※ EGG VAN turns the incubator and eggs very slowly about 90° per an hour.
The device can turn irregular intermittently, it is normal.

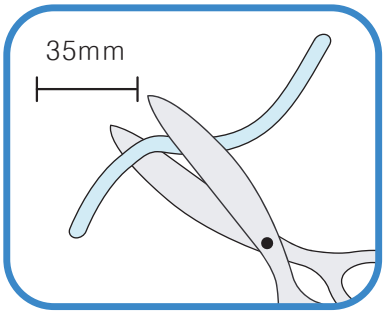
Tip Spray lubricating oil such as WD 40 on the gear part or operation part of EGG VAN for helping smooth operation.



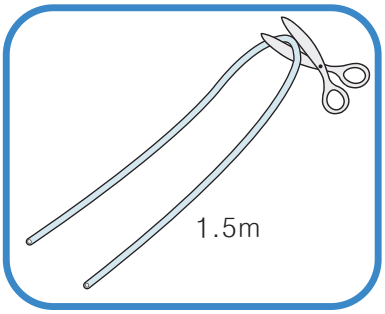
How to Assemble APS (Automatic Pumping System)



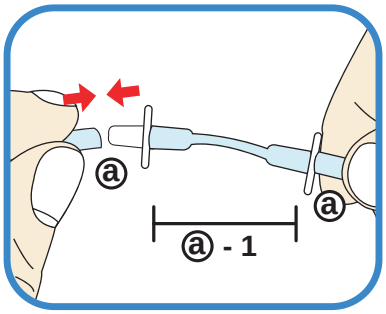
[Pic.1-0]



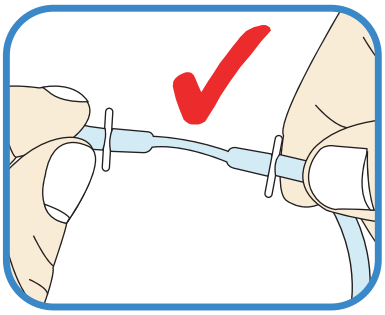
* Is not required with first use



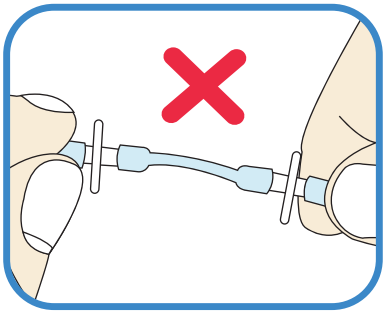
[Pic.1-1]



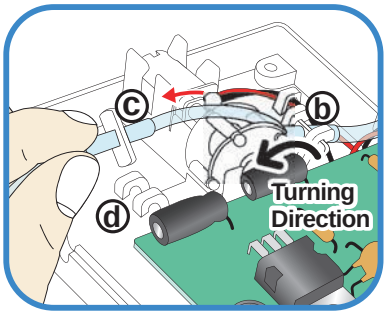
[Pic.1-2]



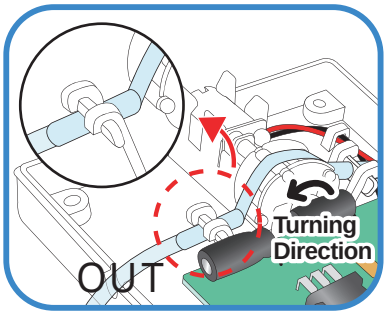
[Pic.1-3]

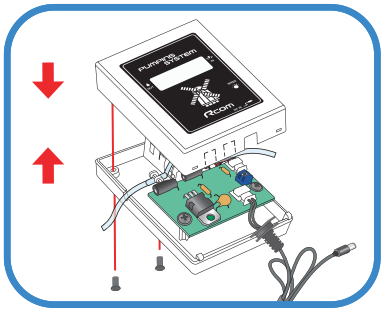


[Pic.1-4]



[Pic.1-5]





[Pic.1-6]

① Cut the silicone tube exactly to 35mm, and insert to nipple as picture 1-2.
(When you purchase, product is originally assembled as ⓐ-1.)

② Cut the silicone tube of 1.5m to half, and insert to assembled nipple ⓐ.

③ It is normal if you assembled as pic.1-3. If you do not insert silicon tube to the nipple completely as pic.1-4, pumping will not work well.

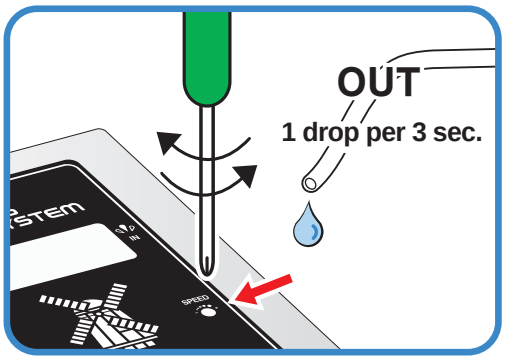
④ Loose two bolts of APS case as picture 1-0, and insert the assembled silicone tube and nipple as pic.1-3 to the side of pic. 1-5 ⓑ.

⑤ Grip the part ⓒ on Pic.1-5, and pull the silicone tube so that fit to ⓓ.
(If silicon tube should be assembled tightly.)

⑥ Spread IN and OUT of tube so that the silicone tube is not tangled. Insert tube on the groove, and cover the case.
Here, be sure to check not the silicone tube or wire get jammed. Refer to the Pic.1-6.

How to Control Water Flow Speed in APS

- The amount of water for humidification can be easily controlled with APS.
- With cross type screw driver, turn "Speed" clockwise to increase water flow and vice versa to decrease.
- To prevent water over flooding and drop down in the chamber, it is recommended to use the APS with lowest water flow speed. (1 drop of water in 3 sec.)



Tip Humidity will raise up very slowly as artificial intelligence function check and memorize ambient conditions to keep incubator inside with optimum conditions.

How to Replace the Tube

- If the silicone tube wear out and it does not pump water effectively, you should replace silicone tube. [Refer to the page 13]

⚠ Be sure to use the silicon tube supplied from Autoelex. (Ø2.6 × 3.5)

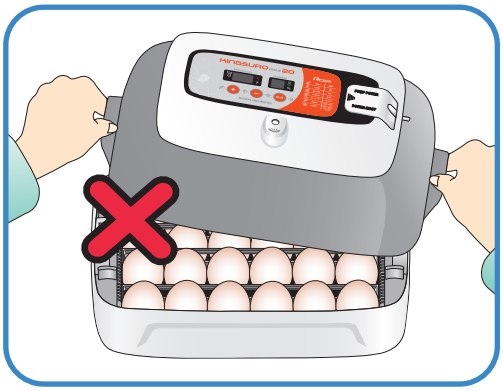
Tip If water does not flow out even if pumping motor is working, check if silicon tube is blocked or folded.

※ If it failed in pumping water, check direction of IN and OUT again, and also check if motor is turning with anti-clockwise. Also, length of silicon tube should be 35mm and inserted correctly. [Refer to the page 13]

Storage and Cleaning

- Do not wash APS with water but wipe with soft cloth.
- In case of long time storage, detach the silicon tube from the APS and remove the water from the tube. Keep the tube without kink. It helps the tube hole not block.
- When assembling again, stretch the tube to open the hole in case the tube is blocked.

Humidity & Air Maintenance During Incubation



▶ When hatching, humidity should be relatively high to prevent the thin membrane from drying out or hardening before hatching.

▶ When hatching, it's recommended not to open the lid often.
This is because if you open the lid often humidity will be rapidly decreased and it will take a long time to regain the proper humidity.

※ If incubatior temperature is higher than 37℃ and room temperature is low, it may be difficult to maintain humidity of over 70%. There may be some difference of humidity about ±5% according to the external environment, but no problem with hatching.

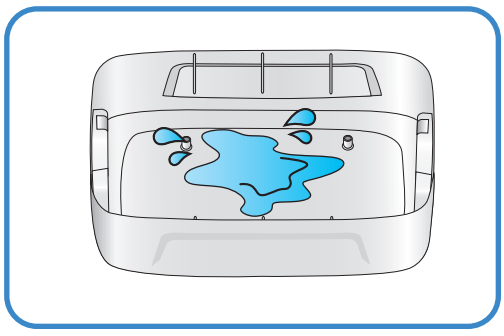
▶ It's very important to maintain humidity higher 1~2 days before hatching than the early and middle incubation periods. Humidity requirements during incubation are 45~55% for waterfowl, 40~45% for poultry and 35~45% for parrot, in general. One day before hatching, all kinds of birds need about 65% humidity and sometimes need higher than that. However, in areas of high ambient humidity, lower levels of humidity may be needed during incubation
(Rcom Pro20 incubator automatically controls these conditions according to incubation period.)

※ Air Controlling Lever : Outer fresh air can be flowed into incubator inside without affecting insulation. When eggs start hatching, open air controlling lever either fully or half-open.

Tip Check water level every three days during incubation, and refill when needed.
You'd better to use tap water than purified water or underground water for avoiding evaporating pad damage. (Evaporating pad is available from Autoelex Co.,Ltd. or distributors.)

※ Evaporating pad is expendables.

※ Dew Condensation



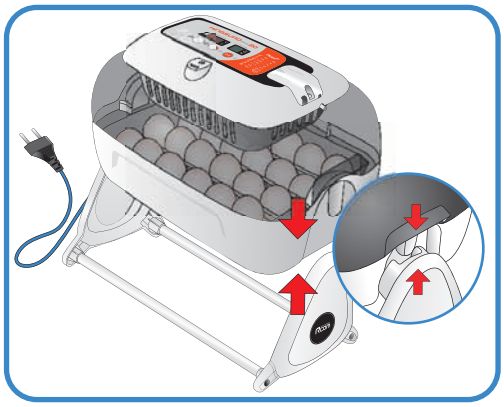
▶ This is a naturally occurring phenomenon when there is a significant difference in temperature between inside and outside of the incubator during incubation period. If this occurs, water may form in inside bottom of the incubator(bottom part).

⚠ Do not place any goods near the incubator.

Incubator Installation

1

Place Suro incubator on the Egg Van
(egg turning device).

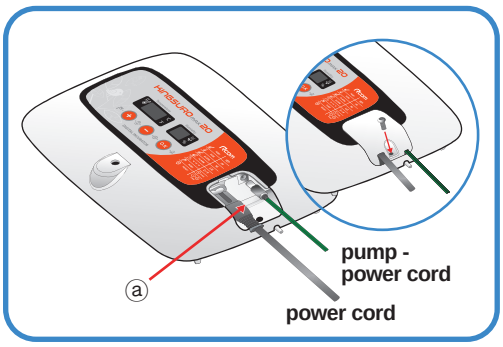


2

Open the power cap, and insert the incubator power cord and pump power cord.

⚠ Be careful and ensure the cords do not get jammed when you tighten screw bolt.

* If you open power cap, there is a sticker which is showing rated current in the position of pic.ⓐ.

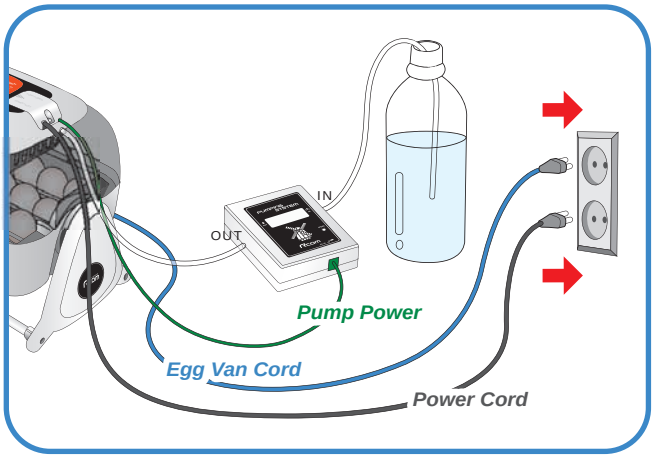


3

Connect silicon tube end of APS (Automatic Pumping System) into the nipple of incubator, and the other end into PET bottle.

Be sure to check rated current Pic.ⓐ before connecting power cord to outlet.

Press (+) button for about 10 sec. for pump operation, and it automatically stop after 2min. If you want to stop pump operation, press any key.



⚠ If you do not insert silicon tube exactly, it will not work properly.
[Refer to the page 13. How to replace silicon tube.]

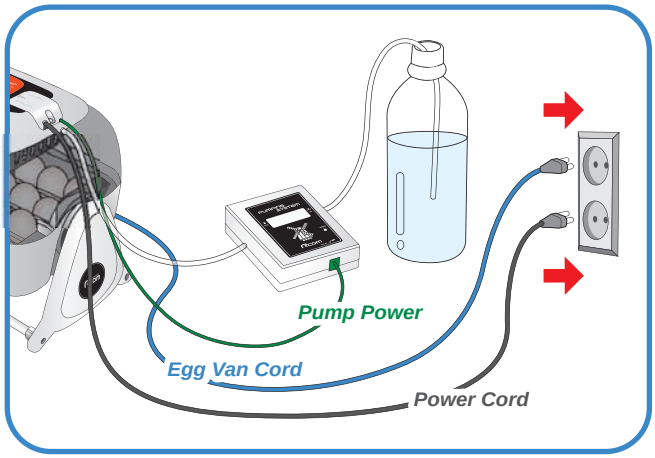
How to Start Incubation

▶ If you connect power cord, incubator starts incubation with factory set conditions.
(Factory setting : Temperature 37.5˚C, Humidity 45%)

※ Start incubation with required temperature & humidity for your species of birds.

▶ With incubation start, be sure to place the incubator on the egg van for egg turning. (90 degree per an hour.)

Tip There can be some odor the first time you use incubator, which is normal.



▶ The first time you connect power, FND light will blink and pump will work for about 2sec. Then, incubator version will be indicated on FND for about 1 sec.

▶ After version indication, buzzer sounds for about 15sec. At the same time, present temp. & humidity displayed and power failure alarm indication ⓐ is blinking.

▶ Press O.K button to remove buzzer and alarm indication.
(Buzzer will be removed automatically after 15sec.)

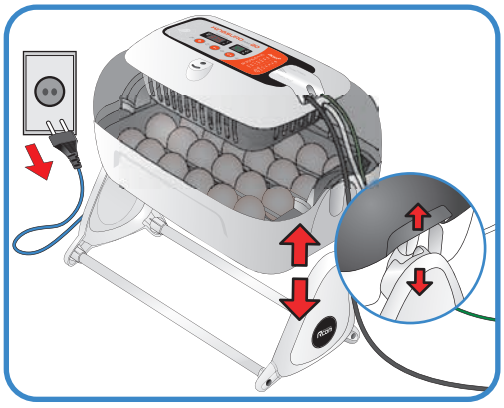
※ Notice of Power Failure : If power is turned off and then on again because of power failure or by mistake, first dot will blink.

Tip Quick Start : If you just connect power, it automatically starts incubation with factory setting.
(Factory setting : Temperature 37.5℃, Humidity 45%)

▶ Incubator display current temperature and humidity, and it goes to setting conditions within an hour.

※ The artificial intelligence system memorizes and classifies ambient conditions for keeping optimum temperature, and temperature can move up slowly at the first stage.

Turning stop During Incubation



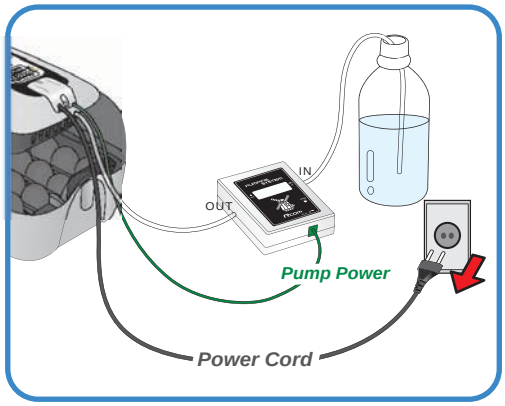
▶ Before 3 days of hatching, disassemble the incubator from EGG VAN, and place on flat surface for stopping egg turning. After that, you'd better to remove Divider.

⚠ Here, be sure to remove Egg Van power cord only.
Be careful not to take off power cord of incubator.

▶ When incubating various species of eggs at the same time, you can move the eggs before three days of hatching to other brooder for easy and clean management.
(You can operate two incubators, and various incubators or brooders are available from Rcom website .)

Tip In case of altricial birds such as parrots or wild birds, you'd better to turn the eggs once or twice additionally by your hand.

Incubation Termination



※ There is no specified ON or OFF button on the incubator.

▶ Just take off the power cord after hatching.

▶ It is not necessary to do Incubator Initialization with KING SURO 20 incubator after hatching. Just connect power again when you want to start incubation again.

Incubator Initialization

▶ This function can be used when user input wrong setting, or incubation termination.

▶ Press (−) and (O.K) button at the same time for about 5sec. then display will show "rSt" and incubator returns to default setting.

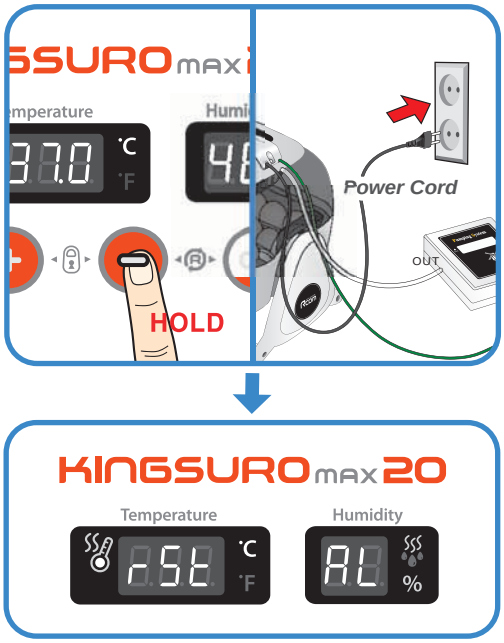
Tip Calibrated setting value will not be initialized with this function.
[If you need to initialize calibrated setting, refer to FACTORY SETTING next page.]

Return to Factory Setting

▶ This function is for return incubator to factory setting.

▶ Unplug power cord. Replug during (−) button is pressed. Then, "rSt AL" will indicated in display, and incubator return to factory setting. (Default setting)

Tip Calibrated temperature and humidity will also return to factory setting.



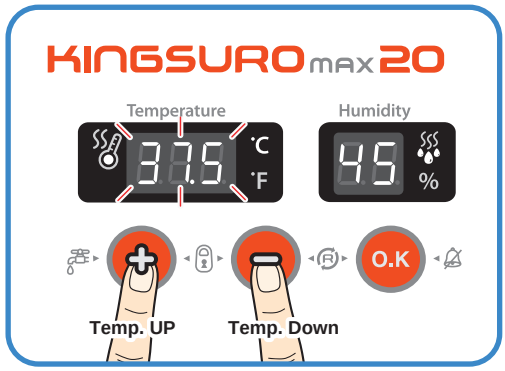
Temperature Setting

▶ Press (+) and (−) button at the same time then " tEP " will be indicated for about 0.5sec. and then temp display will blink.

▶ Then, you can adjust temperature with (+) and (−) button. (Default setting: 37.5 C)

▶ After setting required temperature, press (O.K) button once then setting will be stored.
Next, "rH" will indicated in humidity display for about 0.5sec. and then humidity display will blink.

※ Just press (O.K) button if you do not need to change setting.



Humidity Setting

▶ When humidity display is blinking, adjust humidity setting with (+) or (−) button.
(Default setting : 45%)

▶ After setting required humidity, press (O.K) button once then setting will be stored. Next, “HI” will be indicated for about 0.5sec. and then maximum temperature limit will blink.

※ Just press (O.K) button if you do not need to change setting.

Function Key

Function	Temp.	Humidity	Abnormal High Temp. Alarm	Abnormal Low Temp. Alarm	Centigrade / Fahrenheit
Dispaly	tEP →	rH →	HI →	LO →	°C / °F
Default Setting	37.5°C	45%	2°C	- 3°C	°C

How to Set Abnormal High Temperature Alarm

▶ Adjust abnormal high temperature value with (+) or (−) button. (Default setting : 2°C)

▶ After setting required value, press (O.K) button to save. Then, it will go to the next stage, abnormal low temp. setting with display "LO" for about 0.5 sec.

Abnormal High temperature:
This function gives notice when incubator temperature is higher than setting temperature because of abnormal ambient temperature increase.
When room temperature is higher than incubator temperature, this function works with buzzer.
Here, "HI" and temp. gap are displayed alternatively.
Press OK button to remove buzzer.

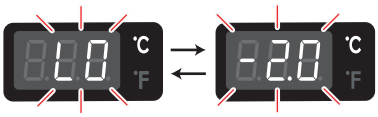
How to Set Abnormal Low Temperature Alarm

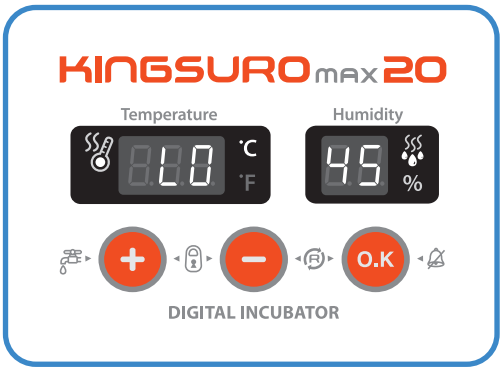
▶ This function gives notice when incubator temperature is lower than setting temperature because of abnormal ambient temperature decrease.

▶ Adjust abnormal low temp. setting with (+) or (−) button. (Default setting : -3°C)

▶ After setting required value, press (O.K) button to save. Then, it will go to the next stage,°C & °F change.

Tip Abnormal Low Temperature: " LO" will indicated on LCD.
(The others, same with abnormal high temp. alarm function.)





How to change Centigrade & Fahrenheit

▶ Select °C or °F with (+) or (−) button.

▶ After selecting °C or °F , press (O.K) button to save. (Default setting : °C)

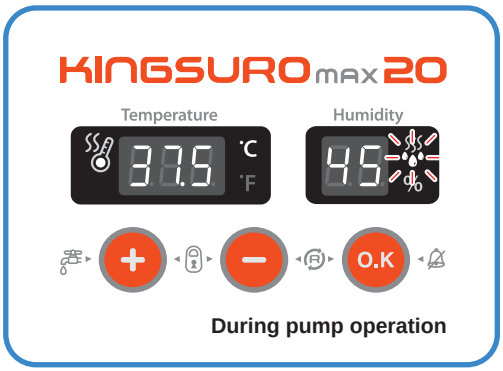
Tip How to change Centigrade value to Fahrenheit
°C = 5/9 (°F - 32)

How to Work Automatic Pumping System (APS) by Force

Pump operation by force

▶ Press (+) button for about 5sec. during incubation process. Then, PUMP will operate by force with LED light on.

▶ Press (+) button for about 10sec. then pump motor works for 2min. by force. It still works for 2min. even if you remove your finger from the button.



During pump operation

Tip If you press (+) button for about 10sec. pump will operate for about 2min. Press any key to remove.

Maintenance after Hatching

▶ Because newly-born chicks just after hatching have little protection against cold, a brooding room should certainly be prepared in advance for them. In case there is no separate brooder prepared, you may let them stay in the incubator for one day or more after hatching.
If you move them to a brooder or brooding box, the inner temperature should be kept at 35℃~37℃ .
For the production method of a simple brooder, please refer to our website www.Rcom.co.kr.

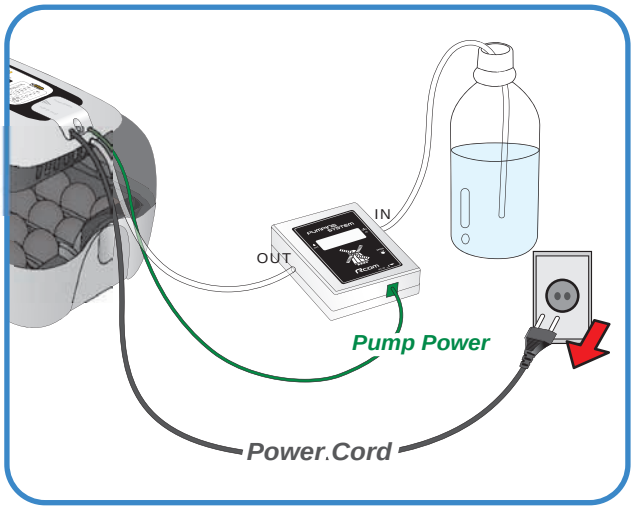
▶ As there is some difference in chick feed for each kind of bird, so it's desirable to obtain useful information about the chicks before hatching.

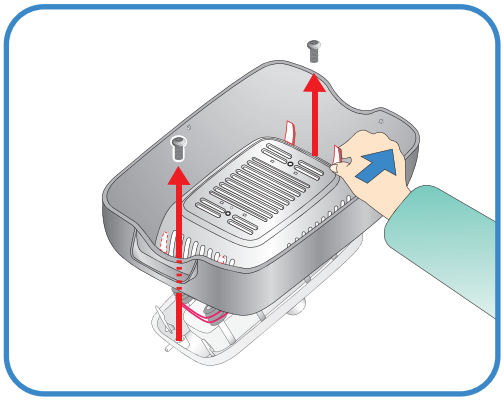
How to Disassemble and Clean the Incubator

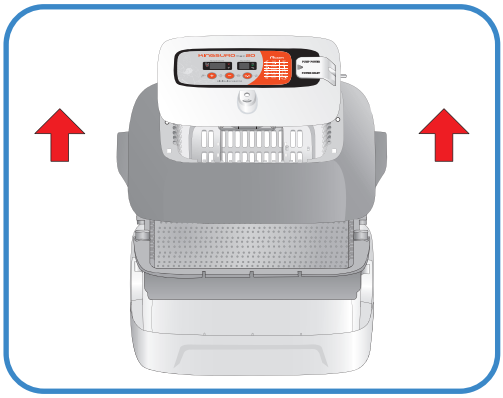
⚠ Be sure to take off power cord before cleaning the incubator.

- After incubation terminated, never leave the incubator covered with view window. Then, moisture inside of the incubator vaporizes and it can stick to electric part so that cause operation failure. Be sure to remove view window and dry the incubator perfectly.

- Remove main controller from view window. [Refer to the page 10]

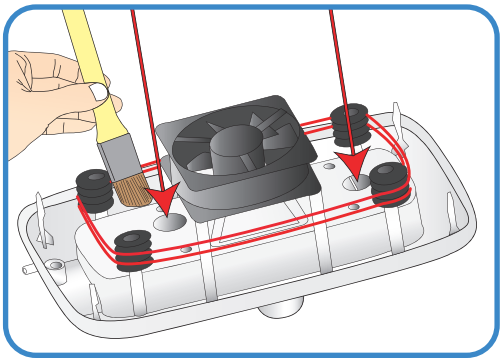




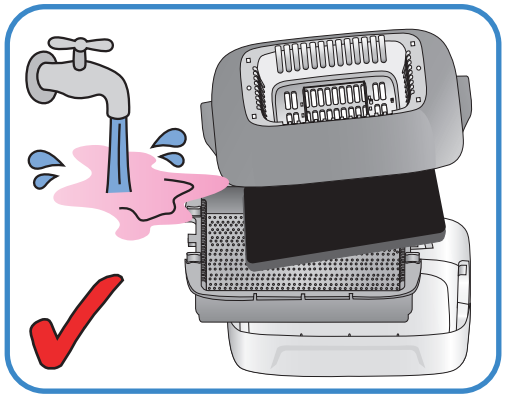


- Wipe the main controller smoothly with soft brush. Be careful not to give impact to sensor part or heating part.

- Temp. & Humidity sensor is assembled with connector for easy replacement in case of trouble.

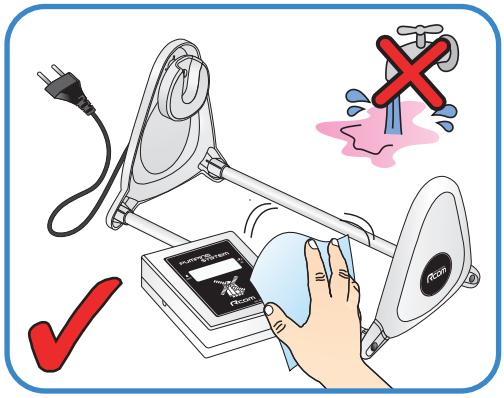


▶ Wash the window, tray, hatching pad and main body with warm water.

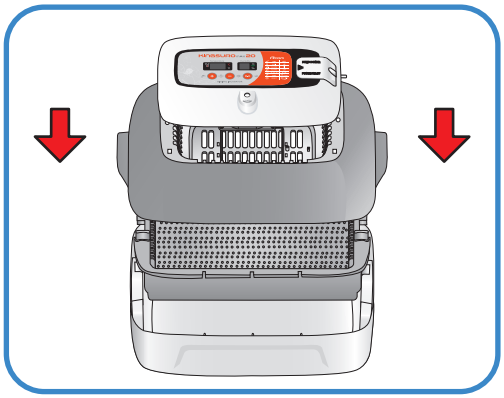


▶ Do not wash EGG VAN and Automatic Pumping-System(APS) with water, and just wipe with soft cloth.

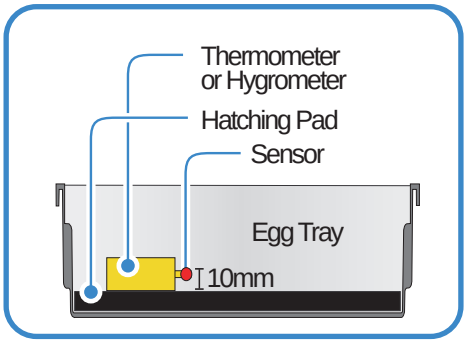
⚠ Do not use benzene or thinner when wipe the unit. It can cause transformation or decoloration



▶ Wipe the exterior with soft cloth, and then completely dry before store.



※ This calibration function is for resetting incubator temp. or humidity with user's thermometer or hygrometer. As incubator is already calibrated from factory with international standard, so it is not recommendable to the user's calibrate by themselves. In case calibration is required, users can do this with their thermometer or hygrometer.



Tip Spread egg tray mat on the bottom of tray,and stable the incubator temperature by operating for an hour before calibration.
And then, observe the temperature or humidity at several position above 10mm of the hatching pad with your thermometer, and calibrate with average value.

⚠ Low priced thermometers or hygrometers which you can easily purchase from the market have large deflection of measurement. This could cause hatching failure, and it is recommended to use highly precise thermometer or hygrometer.

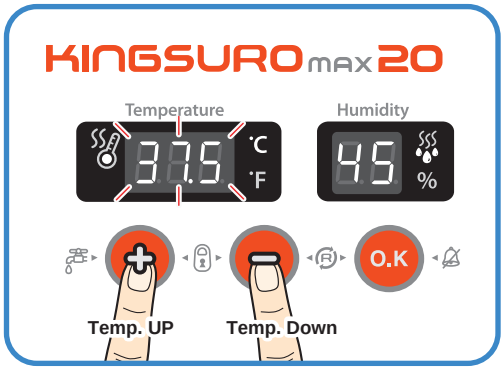
Temperature Calibration

▶ Press (+) , (−) and (O.K) button at the same time.
Then “CA” will indicated for about 0.5sec, and it changes to current temperature.
(CA means Calibration.)

Tip If you want to increase the temperature 0.5°C, Please reduce 0.5°C in calibration setting mode.

▶ You can control temperature by 0.1°C with (+) and (−) button.

▶ Press (O.K) button after calibration finished then it saves the calibrated value.
After that, it goes to humidity calibration.



Tip If you use this function wrong, initialize the incubator to factory setting.

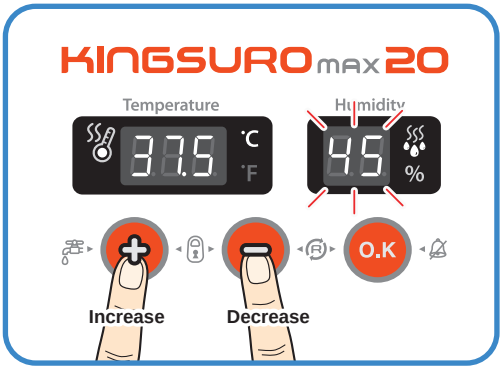
Humidity Calibration

※ After temperature calibration, it goes to humidity calibration.

▶ When humidity display is blinking, adjust humidity according to your needs with (+) and (−) button by 1%.

※ Measurement error of hygrometer which you can purchase from market is bigger than thermometer's.

Tip If you use this function wrongly, initialize the incubator to factory setting.



Tip If you want to up incubator humidity 0.5%, you should calibrate 0.5% lower in calibration mode.

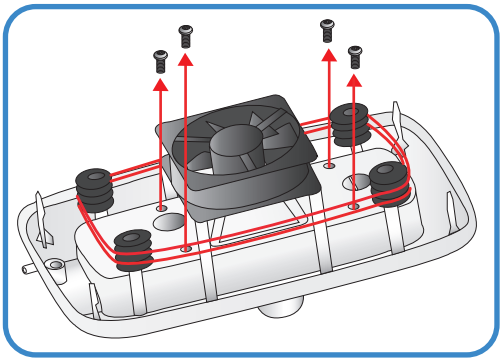
Servicing

**All our Rcom digital incubators of Autoelex Co., Ltd. are made by precision systems under strict quality control. But occasionally some defective products are found on the way of their distribution.
If any problem occurs, then please contact Autoelex service center or distributorsin your country.
We will do our best to solve the problems, if any, for you. This product is designed in modular mode, so for its repair, if any, a qualified person can replace the part concerned with ease.**

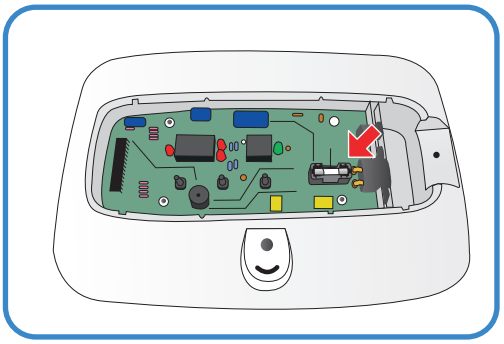
*** Complaint Department : 82-55-337-2560** *** E-mail Receipt : Rcom@Rcom.co.kr**

How to Replace the Fuse

▶ If power does not turn on even if you connect the plug, check fuse.



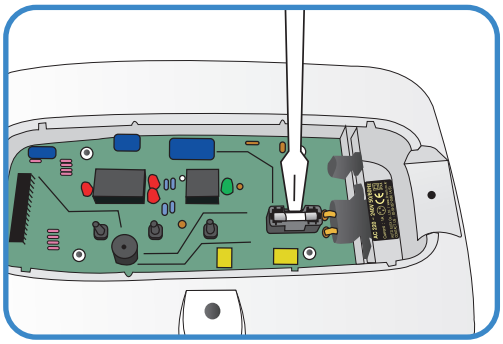
▶ Open the cover as Fig. then you can see fuse equipped PCB.
Remove damaged fuse with screwdriver.



▶ Replace with new fuse. (250V 2.0A ∅5*20mm)

▶ Reassemble with the opposite order of disassemble.

※ If the cover is not completely closed, moisture preventing ring will not attached correctly and moisture can be flow in the PCB part.



⚠ Hatching result can be changed by a large number of factors. Autoelex Co.,Ltd. will not be held responsible for loss of eggs or chicks under any circumstances such as hatching failure, user's carelessness, power failure, or malfunction.

Frequently Asked Questions (FAQ)

Troubles	Expected Causes (Possibility)	Countermeasures
In case hatching rate is low	▶When the egg is an unfertilized egg. ▶Getting infected by germs ▶Wrong incubation setting ▶Health condition of mother bird ▶Improper egg turning	▶ Check possibility of egg surviving ▶ Disinfect the incubator ▶ Check all settings of incubator. Especially, check them focusing on the temperature. ▶ Review care of health of mother bird. ▶ Check if egg turning is normal.
When a chick hatches out earlier than expected or a deformed chick hatches out	▶Setting temperature too high ▶Egg turning was not operating normally	▶ Lower temp. setting of the incubator about 0.5℃(1℉) ex) 37.5℃ → 37.0℃ ▶ Check if egg turning function is OFF
When a chick hatches out later than expected	▶Setting temperature too low	▶ Raise temp. setting of the incubator about 0.5℃(1℉) ▶ ex)37.0℃ → 37.5℃
When hatching dates are so different from each egg (When all chicks don't hatch out at the same time but over a long period)	▶ Eggs stored for different lengths of time ▶ Diffferent incubation temperatures	▶ Set limits to egg storage time properly ▶ Check Temperature difference in the incubator. (sunlight, temp of incubation room, etc.)
When intending to hatching various eggs at the same time	▶ Incubation days are different, so hatching rate falls down.	▶ Mark hatching date on eggs and move them to other incubator (brooder) just on the marked date. ▶ In case of putting in many eggs at the same time, it's convenient to prepare a spare incubator available as a brooder

Troubleshooting

If you need detail self diagnosis, please click "self diagnosis" on our website.

CIRCUMSTANCE	ITEMS TO BE CONFIRMED	SOLUTIONS
No signs of power to the incubator.	▶ Check electric cord is properly connected. ▶ Check if there is a power outage. ▶ Check whether the plug is damaged. ▶ Check the fuse is not blown. [Refer to the page 26-27]	▶ Connect the cord again. ▶ Check the main socket with any other electric appliances. ▶ Try to insert to another outlet. ▶ Replace the spare fuse in the fuse box. (250V 2.0A)
When Temperature is too high or too low	▶ Check your setting temperature. ▶ Check the air circulation FAN is working. ▶ Initialize the incubator. [Refer to the page 18] ▶ Calibrate the temperature. [Refer to the page 25]	▶ Set the temperature as required. ▶ Take the power plug out of the outlet, and disassemble the main body for cleaning around the air circulation fan with brush.
When Humidity is too high or too low	▶ Check water is enough. ▶ Check setting humidity. ▶ Initialize the incubator. [Refer to the page 18] ▶ Calibrate humidity. [Refer to the page 26] <When Low> ▶ Check if evaporating pad is fit well. ▶ Check if view window is closed completely. <When High> ▶ Check ambient conditions. ▶ Check if there is water in bottom body.	▶ Supply water. ▶ Set required humidity. <When Low> ▶ If evaporating pad does not fit well, humidification device will not work well. ▶ Close view window exactly. <When High> ▶ Adjust the conditions of room temperature [Refer to the page 9] ▶ Remover water inside of bottom body.
The machine makes some noise. - It is normal that the machine emits some sounds because it uses air circulation fan for working.	▶ Check whether you put anything on the incubator. ▶ Check if there is any vibration, or check the incubator set on a table. ▶ Check if there is any hatching debris such as feather or eggs-shell in the incubator FAN.	▶ Ensure the incubator is not touching any other items and nothing is on top of the unit. ▶ Move the incubator to a flat and even surface. ▶ Unplug the power supply and disassemble the main body for cleaning the egg turning tray and gear.
Dew foams in the incubator. - Dew condensation is normal with high humidity incubation.	▶ Check if incubation room temperature is too low.	▶ Check conditions of incubation room, and adjust as required.
When pumping is slow	▶ Check Silicon Tube	▶ Adjust APS speed hole with screw driver.

⚠ **Hatching result can be changed by a large number of factors. Autoelex Co.,Ltd. will not take a responsibility for loss of eggs or chicks under any circumstances such as hatching failure, user's carelessness, power failure, or malfunction.**

⚠ **Be sure that the incubator works without any problem before placing eggs in the incubator.**

Specification

1-1 NAME : Rcom KINGSURO MAX 20
1-2 MODEL NO. : MX-SURO

Power	AC 100[V]~120[V], 50/60[Hz] / AC 220[V]~240[V], 50/60[Hz]	
Power Consumption	Max. 48[W]	Average 20[W]
Egg Van Power Consumption	Average 3[W]	
Temp. limits	20[℃] ~ 42[℃](68[℉]~107.6[℉])	
Humidity Limits	20[%] ~ 70[%] (It can be changed according to the conditions)	
Size	(W)370×(D)231×(H)209 [mm]	Including EGG VAN (W)432×(D)231×(H)262 [mm]
Net Weight	1.9[kg]	2.5[kg] (Including EGG VAN)
Fuse Standard	250[V] 2.0[A] (∅5×20[mm])	
Capacity	Chick : 24[eggs] Duck : 20[eggs] Goose : 9 ~ 12[eggs] Pheasant : 40[eggs] Quail : 60[eggs] Amazone / Macaw : 36[eggs]	

※ **Register your product Serial No. on our website for free 2 years gurantee.**
※ **Refer to website for how to register. (Free 1 years gurantee in case not registerd.)**

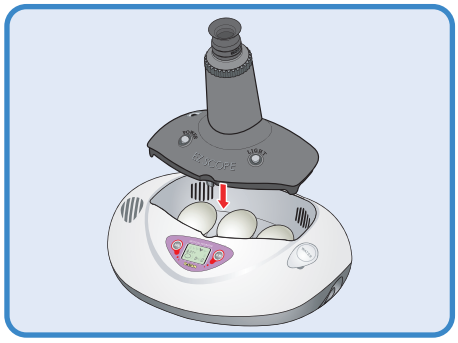
▶If you are a new member of Rcom, you need to log in our website at www.Rcom.co.kr

1. Click English
2. Click “CUSTOMER” on the top of right corner
3. Click “REGISTER PRODUCT”
4. Fill in your information on the blanks
5. Completed to register

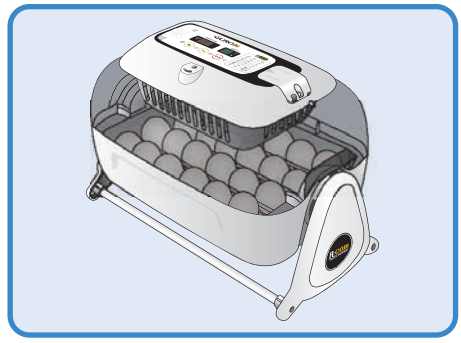
▶If you already registered your information on Rcom website

1. Log on www.Rcom.co.kr
2. Click “Sign up on the top right corner”
3. Check “YES" to the question "Did you purchase Rcom products?”
4. Fill in your information on the blanks

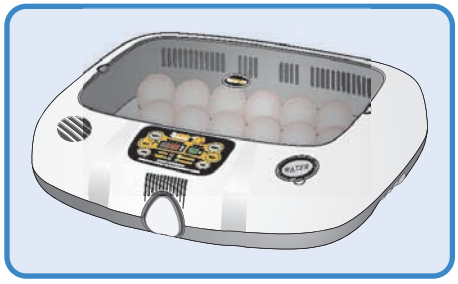
Rcom Incubator Series



Rcom PRO MINI (PX-03)



Rcom KINGSURO MAX 20 (MX-SURO)



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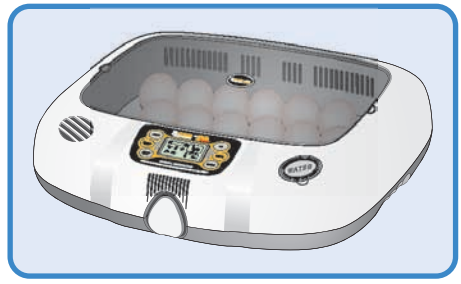

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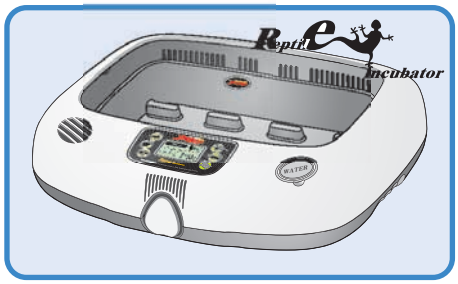
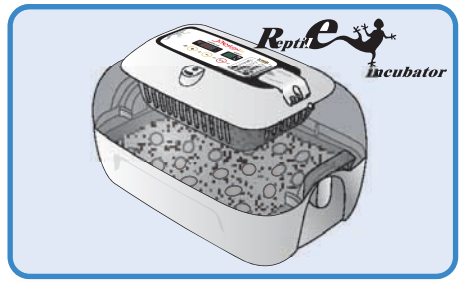


Rcom reptiles PRO 90 (PX-R90)



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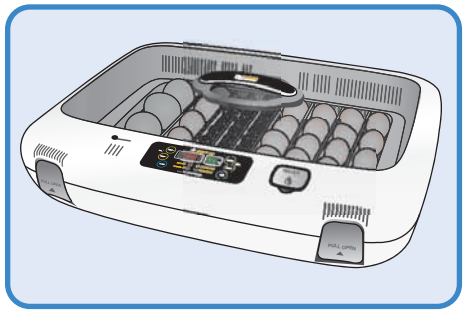
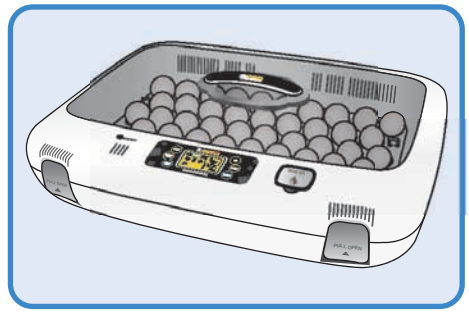


Rcom MAX 50 (MX-50)



Rcom PRO 50 (PX-50)

Rcom BROODER&ICU (MX-BS500(N))

Rcom MARU MAX 500 (MX-500S)

Rcom KING SURO 20 PART LIST

Image	Part No	Names of goods
	K20-H504-10	K20 Body
	K20-H503-10	K20 Window
	K20-H501-10	K20 Bottom
	K20-H502-10	K20 Tray
	K20-H523-10	ABS Divide
	K20-H511-10	K20 Air Vent Knob
	K20-H510-10	K20 Op-Panel
	K20-A524ML-10 K20-A524MH-10	K20 MAX MAIN PCB 110ASM K20 MAX MAIN PCB 220ASM
	RCM-A310-10	TH V2 Sensor ASM
	K20-H506-10	K20 Power Cap
	K20-H509-10	K20 Turning Base-R
	K20-H5091-10	K20 Turning Base-L
	K20-H5081XX	EGG VAN FRAME-L (AU,UK,US,JP,EU,KR)
	K20-H508-10	EGG VAN FRAME-R
	K20-H507-10	K20 Motor Cover
	K20-A513-10	K20 Slip Gear ASM

Image	Part No	Names of goods
	K20-A531L-10 K20-A531H-10	K20 Sychro 110Motor K20 Sychro 220Motor
	K20-H533-10	EGG VAN Al-Pipe
	K20-A508(EU)-10	EGG VAN ASM(EU)
	K20-H505-10	K20 CRANK Bar
	K20-H512-10	Heat Support -A
	K20-A541L-10 K20-A541H-10	K20 Silicon 110HEATER ASM K20 Silicon 220HEATER ASM
	K20-H516-10	K20 HUMI Pad CLIP
	K20-H521-10	APS COVER
	K20-H5211-10 (K20-A5211-10)	APS Bottom (APS CASE ASM)
	K20-AH518-10	APS MOTOR ASM
	RCM-600-10	SURO Nipple
	K20-H538-10	Silicon Tube (SURO)
	K20-AH521-10	APS ASM
	K20-H534-10	K20 Humidity Pad
	K20-H535-10	K20 Hatching Pad
	K20-H528-10	K20 BLDC FAN80
	H20-304(EU)-10	Power Coard(8)

Rcom is designed for user's easy and convenient use.
It can be changed without notice for improvement in performance,
design,treatment, and software, etc.

DIGITAL INCUBATOR

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- E-MAIL : Rcom@Rcom.co.kr

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